Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool __Basin__ Formation __Dakota__ County __San Juan__

Initial __X__ Annual _____ Special _____ Date of Test __1/16/61__

Company __Aztec Oil and Gas Company__ Lease __Robinson__ Well No. __4-9__

Unit __D__ Sec. __22__ Twp. __30N__ Rge. __12W__ Purchaser _____

Casing __4½__ Wt. __9.50__ I.D. __4.090__ Set at __6400__ Perf. __6473__ To __6577__

Tubing __2 3/8__ Wt. __4.70__ I.D. __1.995__ Set at __6400__ Perf. __Pin collar__ To _____

Gas Pay: From __6473__ To __6577__ L __6400__ xG __0.65(?)__ GL __4096__ Bar.Press. __12__

Producing Thru: Casing _____ Tubing __X__ Type Well __Single__

Date of Completion: __1/4/61__ Packer _____ Single-Bradenhead-G. G. or G.O. Dual
Reservoir Temp. _____

OBSERVED DATA

Tested Through _____ (Choke) _____ Type Taps _____

No.	Flow Data (Prover)(Line) Size	(Choke) Size	Press. psig	Diff. h_w	Temp. °F.	Tubing Data Press. psig	Tubing Data Temp. °F.	Casing Data Press. psig	Casing Data Temp. °F.	Duration of Flow Hr.
SI						1002		1002		7 days
1.		0.250				87	66(?)	458		1 hr.
2.										
3.										
4.										
5.										

FLOW CALCULATIONS

| No.	Coefficient (24-Hour)	$\sqrt{h_w p_f}$	Pressure psia	Flow Temp. Factor F_t	Gravity Factor F_g	Compress. Factor F_{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	12.365		39	1.0000	0.9608	1.024	169
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
F_c _____ $(1-e^{-s})$ _____

Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c __1015__ P_c^2 __1,031,065__

No.	P_w P_t (psia)	P_t^2	$F_c Q$	$(F_c Q)^2$	$(F_c Q)^2 (1-e^{-s})$	P_w^2	$P_c^2-P_w^2$	Cal. P_w	$\frac{P_w}{P_c}$
1.	444					197.156	1,470,059		
2.									
3.									
4.									
5.									

Absolute Potential: __465__ MCFPD; n __0.73__

COMPANY __Aztec Oil and Gas Company__
ADDRESS __Drawer # 570, Farmington, New Mexico__
AGENT and TITLE __ORIGINAL SIGNED BY L. M. STEVENS__ __L. M. Stevens, Dist. Engr.__
WITNESSED _____
COMPANY _____

REMARKS
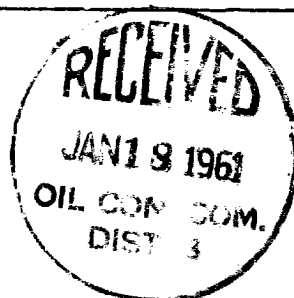
INSTRUCTIONS

This form is to be used for reporting multi-point back pressure tests on gas wells in the State, except those on which special orders are applicable. Three copies of this form and the back pressure curve shall be filed with the Commission at Box 871, Santa Fe.

The log log paper used for plotting the back pressure curve shall be of at least three inch cycles.

NOMENCLATURE

Q = Actual rate of flow at end of flow period at W. H. working pressure (P_w). MCF/da. @ 15.025 psia and 60° F.

P_c = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia

P_w = Static wellhead working pressure as determined at the end of flow period. (Casing if flowing thru tubing, tubing if flowing thru casing.) psia

P_t = Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia

P_f = Meter pressure, psia.

h_w = Differential meter pressure, inches water.

F_g = Gravity correction factor.

F_t = Flowing temperature correction factor.

F_{pv} = Supercompressability factor.

n = Slope of back pressure curve.

Note: If P_w cannot be taken because of manner of completion or condition of well, then P_w must be calculated by adding the pressure drop due to friction within the flow string to P_t.